

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	353	703/8.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/05/02 15:43
L2	2	"20050092564".pn.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/05/02 15:45
L3	49	(stewart adj platform) and spring	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/05/02 15:45
L4	32	L3 and @ad<"20020305"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/05/02 15:45

[PS] [The Stewart platform manipulator: a review - group of 3 »](#)

[All articles](#) [Recent articles](#)

B Dasgupta, TS Mruthyunjaya - Mechanism and Machine Theory, 2000 - iitk.ac.in

... Kerr [82] analysed a similar structure and enumerated a few design criteria for

the sensor structure. The concept of a passive **Stewart platform** with **spring**- ...

Cited by 95 - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

[Efficient computation of forward kinematics and Jacobian matrix of a Stewart platform-based ...](#)

CC Nguyen, ZL Zhou, SS Antrazi, CE Campbell Jr - Southeastcon'91., IEEE Proceedings of, 1991 - ieeexplore.ieee.org

... provided through the compliant platform, which is suspended from the payload platform

by six **spring**-loaded pistons arranged in the **Stewart Platform** mechanism ...

Cited by 12 - [Web Search](#)

[Modeling, simulation, and control of a hydraulic Stewart platform - group of 3 »](#)

D Li, SE Salcudean - Robotics and Automation, 1997. Proceedings., 1997 IEEE ..., 1997 - ieeexplore.ieee.org

... For the **Stewart platform** considered here, the mass of the six legs is considerably ...

coefficient (normally piston seal friction), K is the **spring** constant of ...

Cited by 17 - [Web Search](#) - [BL Direct](#)

[Experimental study of motion control and trajectory planning for a Stewart Platform robot ...](#)

CC Nguyen, SS Antrazi, ZL Zhou, CE Campbell Jr - Robotics and Automation, 1991. Proceedings., 1991 IEEE ..., 1991 - ieeexplore.ieee.org

... Six **spring**-loaded pistons arranged also in a geometry similar to the **Stewart Platform**

mechanism are used to suspend the lower compliant platform from the ...

Cited by 8 - [Web Search](#)

[Precise, fault-tolerant pointing using a Stewart platform - group of 2 »](#)

JE McInroy, JF O'Brien, GW Neat - Mechatronics, IEEE/ASME Transactions on, 1999 - ieeexplore.ieee.org

... active pointing, passive isolation, and fault tolerance, a **Stewart platform** (or

hexapod ... move the strut linearly in parallel with a passive **spring** to provide ...

Cited by 16 - [Web Search](#) - [BL Direct](#)

[Design and control of a simplified Stewart platform for endoscopy - group of 3 »](#)

JM Wendlandt, SS Sastry - Decision and Control, 1994., Proceedings of the 33rd IEEE ..., 1994 - ieeexplore.ieee.org

... useful for applications which do not need the full motion of the **Stewart platform**. ...

consists of two platforms separated by rigid tubes and a **spring**-like device ...

Cited by 8 - [Web Search](#) - [BL Direct](#)

[Implementation of Stewart platform based force-torque sensor](#)

TA Dwarakanath, TK Bhaumick, D Venkatesh - Multisensor Fusion and Integration for Intelligent Systems, ..., 1999 - ieeexplore.ieee.org

... The concept of a passive **Stewart platform** with **spring** loaded legs was used by Griffis

and Duffy [7] for theoretical modeling of a compliant coupling. ...

Cited by 5 - [Web Search](#)

[A six degree of freedom micromanipulator for ophthalmic surgery](#)

KW Grace, JE Colgate, MR Glucksberg, JH Chun - Robotics and Automation, 1993. Proceedings., 1993 IEEE ..., 1993 - ieeexplore.ieee.org

... the physical design of a **Stewart Platform** can be divided into two classes: (I) legs

either pull or push against an antagonistic force (ie a **spring** pushes the ...

Cited by 30 - [Web Search](#) - [BL Direct](#)

[A six-component contact force measurement device based on the Stewart platform - group of 5 »](#)

JS Dai, DR Kerr - Proceedings of the Institution of Mechanical Engineers. Pt. ..., 2000 - journals.pepublishing.com

... based on the **Stewart platform** ... The geometry of the device is based upon that

of the **Stewart platform** manipulator, configured symmetrically. ...

[Cited by 6](#) - [Web Search](#) - [BL Direct](#)

[On the stiffness and stability of Gough-Stewart platforms - group of 2 »](#)

MM Svinin, S Hosoe, M Uchiyama - Robotics and Automation, 2001. Proceedings 2001 ICRA. IEEE ..., 2001 - [ieeexplore.ieee.org](#)

... Griffis and Duffy (1993) derived . an asymmetric stiffness matrix for a

**Stewart platform**- type mechanism with six **springs**. Ciblak ...

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[Six-axis vibration isolation system using soft actuators and multiple sensors. - group of 6 »](#) [All articles](#) [Recent articles](#)

D Thayer, M Campbell, J Vagners, A Von Flotow - Journal of Spacecraft and Rockets, 2002 - pdf.aiaa.org  
... THE cubic hexapod, or **Stewart platform**, 1 has ... Load cell, payload — Rigid Internal  
**spring** 10 – 200 ... AFLR VISS (SAM) accelerometer ( » 0.2) **suspension** ...  
Cited by 16 - [Web Search](#) - [BL Direct](#)

[Six-degree-of-freedom hexapods for active damping and active isolation of vibrations - group of 2 »](#)

AA Hanieh, M Horodincu, A Preumont - Journal de Physique IV, 2002 - edpsciences.org  
... and the stabilisation of the **suspension** modes ... system is based on a **spring** mass device ...  
The second **Stewart platform** uses high-stiffness piezoelectric actuators in ...  
Cited by 1 - [Web Search](#) - [BL Direct](#)

[A six degree-of-freedom wrist with pneumatic suspension](#)

SE Salcudean, S Bachmann, D Ben-Dov - Robotics and Automation, 1994. Proceedings., 1994 IEEE ..., 1994 -  
ieeexplore.ieee.org  
... using them in a conventional **Stewart platform** arrangement. ... 6.5 mm (0.25 in) Bellows  
**Spring** Rate 175 ... hysteresis in the mechanism is the flexural **suspension**. ...  
Cited by 1 - [Web Search](#) - [BL Direct](#)

[Development of the NIST Robot Crane Teleoperation Controller - group of 3 »](#)

NG Dagalakis, JS Albus, RV Bostelman, J Fiala - Robotics and Remote Handling Proceedings, Fifth Topical ..., 1993 -  
isd.mel.nist.gov  
... joystick was another small size **Stewart platform** mechanism shown in ... applied to a  
steel leaf **spring** plate mounted ... the coordinates of the **suspension** points, with ...  
Cited by 3 - [View as HTML](#) - [Web Search](#)

[A feasibility study on elastokinematic parameter identification for a multilink suspension - group of 5 »](#)

EP Rocca, RP Russo - Proceedings of the Institution of Mechanical Engineers, Part ..., 2002 - journals.pepublishing.com  
... the **suspension** achieves static equilibrium and assumes the **Stewart platform**  
type. ... **spring** extension values, corresponding to a reaction of ...  
[Web Search](#) - [BL Direct](#)

[Applications of the NIST RoboCrane - group of 4 »](#)

R Bostelman, J Albus, N Dagalakis, A Jacoff, J ... - Proc. of the 5th International Symposium on Robotics and ..., 1994 -  
isd.mel.nist.gov  
... tubular gantry, containing three upper **suspension** points for ... **Stewart Platform** Joystick  
Figure 2 - Robocrane Control System ... plate that acted as a leaf-**spring**. ...  
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[The bounds and realization of spatial stiffnesses achieved with simple springs connected in parallel](#)

S Huang, JM Schimmels - Robotics and Automation, IEEE Transactions on, 1998 - ieeexplore.ieee.org  
... of the body's **suspension** is characterized ... equivalently modeled with a **Stewart**  
**Platform**-type parallel mechanism consisting of passive line **springs**. ...  
Cited by 42 - [Web Search](#) - [BL Direct](#)

[\[book\] Responsive Systems for Active Vibration Control](#)

A Preumont - 2002 - books.google.com  
... Semi-active **suspension** devices may be based on classical viscous dampers with  
a variable orifice, or on magneto-rheological (MR) fluids. ...  
Cited by 5 - [Web Search](#) - [Library Search](#)

[The European collaborative programme on evaluating the performance of shaking tables](#)

AJ Crewe - Philosophical Transactions: Mathematical, Physical and ..., 2001 - journals.royalsoc.ac.uk  
... shock absorbers **suspension** system: coil or air **springs** foundations reaction mass

nitrogen **springs** ... Figure 9. A typical example of a **Stewart platform**. ...  
[Cited by 5](#) - [Web Search](#) - [BL Direct](#)

### A soft 6-axis active vibration isolator - group of 2 »

J Spanos, Z Rahman, G Blackwood - American Control Conference, 1995. Proceedings of the, 1995 - [ieeexplore.ieee.org](#)  
... in a mu- tually orthogonal **Stewart platform** configuration. ... the strain energy stored  
in the axial **springs**. ... the need for a complex gravity off-load **suspension**. ...  
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» Key

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

[Select All](#) [Deselect All](#)

- ☐ 1. **A control system for a microgravity isolation mount**  
Jones, D.I.; Owens, A.R.; Owen, R.G.;  
[Control Systems Technology, IEEE Transactions on](#)  
Volume 4, Issue 4, July 1996 Page(s):313 - 325  
Digital Object Identifier 10.1109/87.508880  
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- ☐ 2. **A force-controlled pneumatic actuator**  
Ben-Dov, D.; Salcudean, S.E.;  
[Robotics and Automation, IEEE Transactions on](#)  
Volume 11, Issue 6, Dec. 1995 Page(s):906 - 911  
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- ☐ 3. **The bounds and realization of spatial stiffnesses achieved with simple springs connected in parallel**  
Shuguang Huang; Schimmels, J.M.;  
[Robotics and Automation, IEEE Transactions on](#)  
Volume 14, Issue 3, June 1998 Page(s):466 - 475  
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- ☐ 4. **Table online neural control of systems with closed kinematic chains**  
Randall, M.J.; Winfield, A.F.T.; Pipe, A.G.;  
[Control Theory and Applications, IEE Proceedings-](#)  
Volume 147, Issue 6, Nov. 2000 Page(s):619 - 632  
Digital Object Identifier 10.1049/ip-cta:20000759  
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